


$$15000x + 12,000y = 150,000$$

$$\underline{\underline{x=y}}$$


$$15000x + 12000x = 150000$$

$$\frac{27,000x}{27,000} = \frac{150,000}{27,000}$$

$$x = 5.\overline{55}$$

$$y = 5.\overline{55}$$

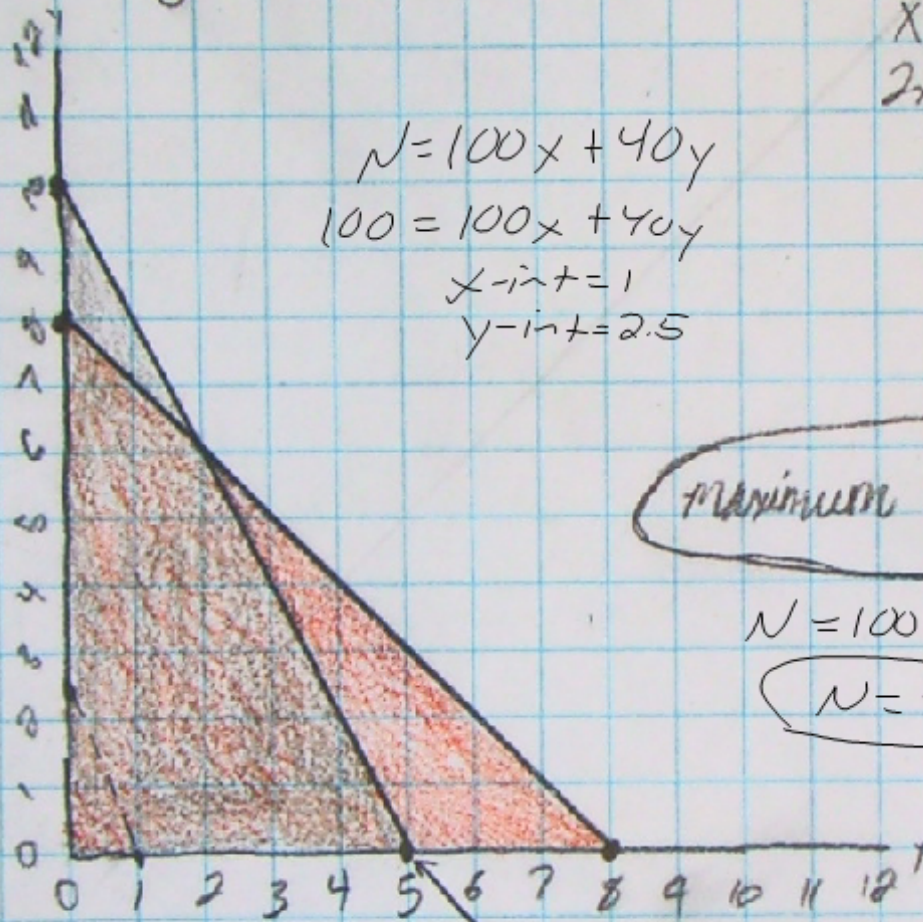
p.142

#6, 16



Block 1

6)  $x + y \leq 8$   
 $2x + y \leq 10$   
 $x \geq 0, y \geq 0$



$$N = 100x + 40y$$

$$100 = 100x + 40y$$

$$x - \text{int} = 1$$

$$y - \text{int} = 2.5$$

$$\begin{aligned} x + y &= 8 \\ 2x + y &= 10 \end{aligned} \rightarrow y = (8 - x)$$

$$\begin{aligned} 2x + (8 - x) &= 10 \\ x + 8 &= 10 \\ -8 &-8 \\ x &= 2 \end{aligned}$$

$$\begin{aligned} 2 + y &= 6 \\ -2 &-2 \\ y &= 6 \end{aligned}$$

maximum amount =  $x = 5$   
 $y = 0$

$$N = 100(5) + 40(0)$$

$$N = 500$$

Last  
Point  
touches

16.)  $x + y \leq 11$



16.)  $x + y \leq 11$   
 $2y \geq x$

touches

Switch  $x$  &  $y$

$x + y \leq 11$   
 $2y \leq x$

Last  
Point touches

$2y + y = 11$

$\frac{3y}{3} = \frac{11}{3}$

$y = 3.67$

$x + 3.67 = 11$   
 $-3.67 - 3.67$

$y = 7.33$

maximum amount =  $x = 3.67$   
 $y = 7.33$

$10 = 3x + 2y$

$x = 5.33$

$y = 5$

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$P = 1.5x + 2y$

feasible region

— solution

(30, 80) \$205

(75, 50) \$212.50

Dough (oven space)

prep time

Done

## Cookies Assessment (due Tuesday):

- 1) Answer the Woo's dilemma, i.e., how many of each kind of cookie gives them the most profit? Include how much of each constraint is used.
- 2) Provide a convincing explanation that your answer provides the greatest profit (HINT: *Graphs & Algebra* are convincing arguments).
- 3) Add charts, graphs, equations, constraints, diagrams, etc. to your writeup.

HW:

"Get the Point Worksheet" (#1 only)

## Extended Problem Write-Up

\* — process  
— Answer

$$6 + 5n + 10d = 10(\underset{\text{dimes}}{6}) + 5d + n$$

				Switch			
P	N	D	Total \$	P	N	D	Total \$
6	1	1	21 cents	1	6	1	41 cents